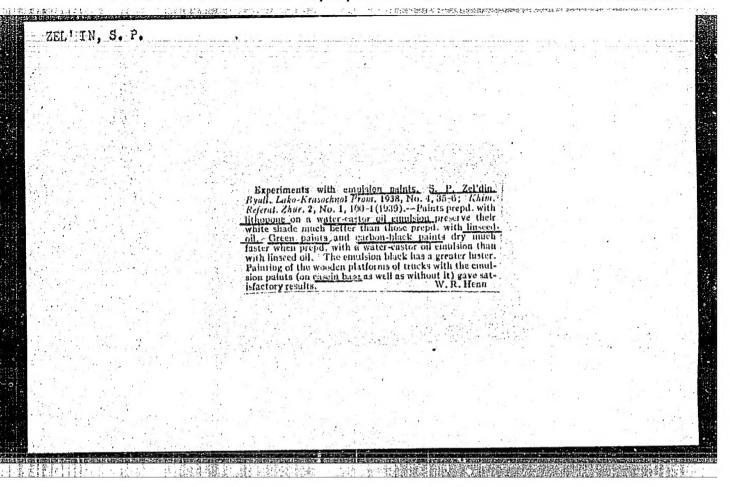
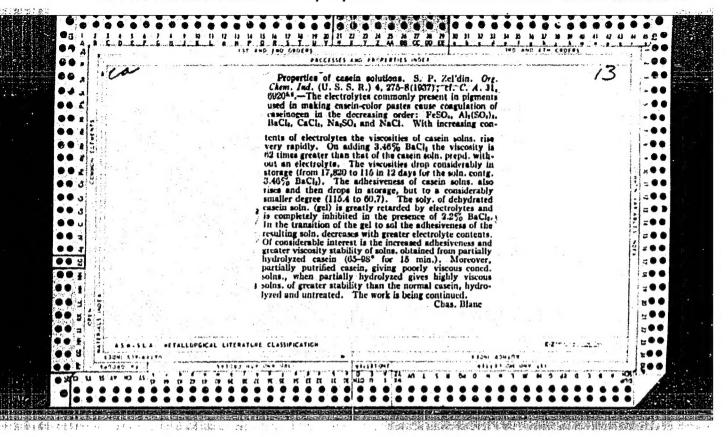
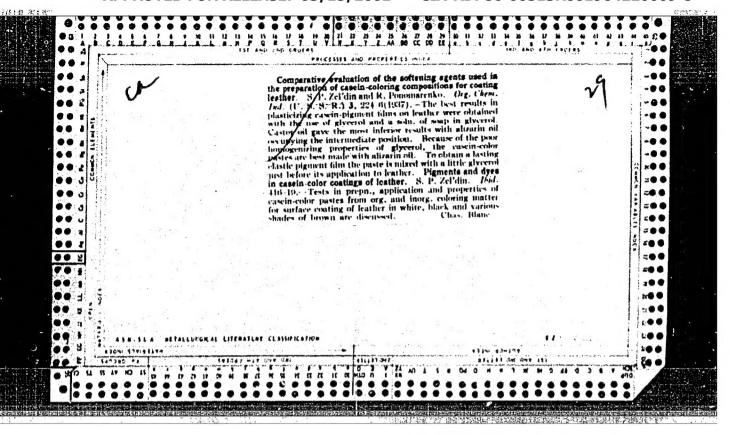
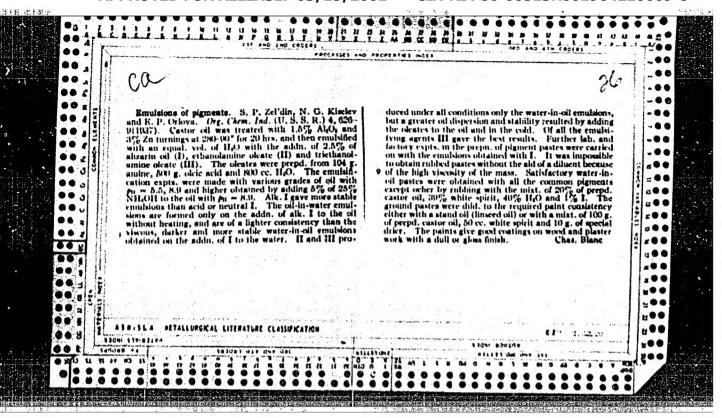


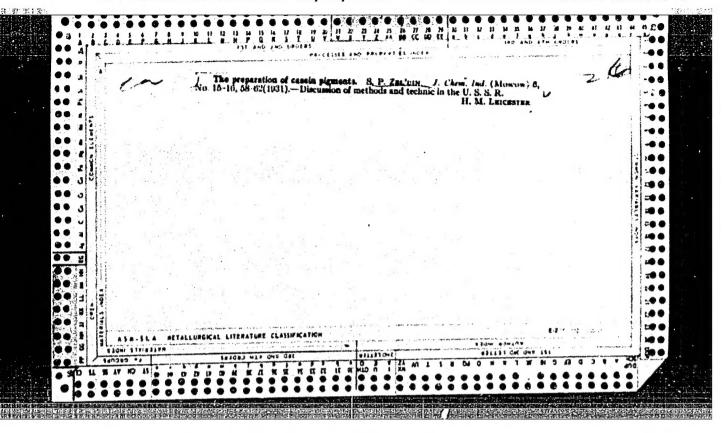
ZEL'DIN, S. P.		
	Casein priming base for wood, S. P. Ze Chen. Ind. (U. S. S. P.) 5, 54 (1938). — A mindre casein, 3.5-4.5 g. Nathl., 4.5-5.5 g. p. 601 g. pignents (mineral and a.g.) and 20-40 oil was used as a prime lane for oil and lacque wood. It prevents blistering and swelling finish, dries quickly and reduces the required meantings. Ch.	Cdin, Org. (Col 100 g. (COL) 300-1 g. alizarin or paints on of veneer g., of variable
	contings. Ch	ni: Mane

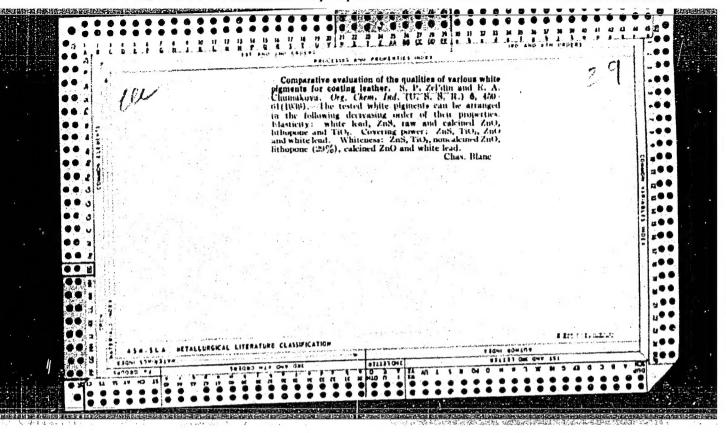


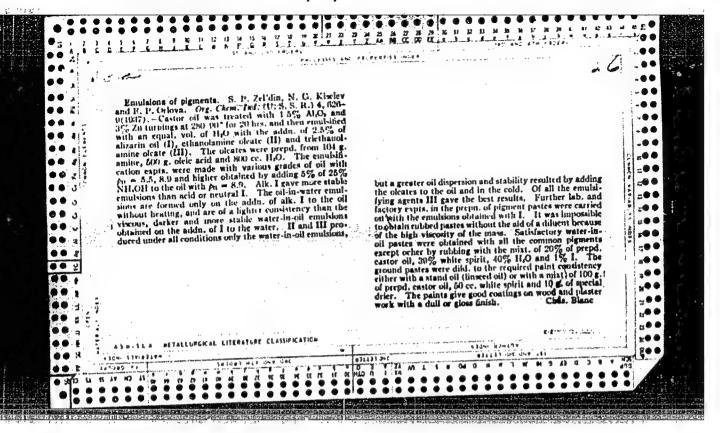


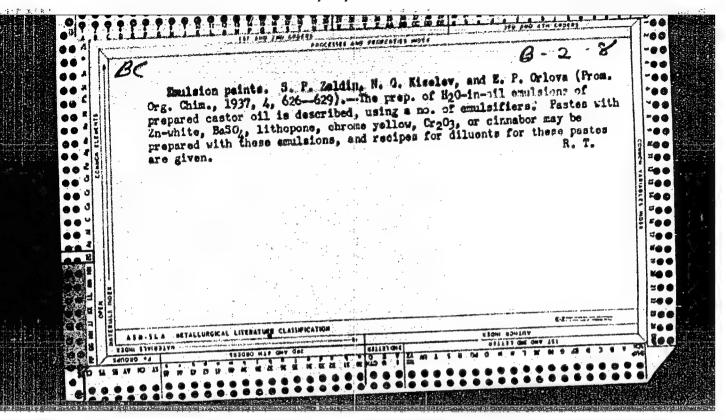


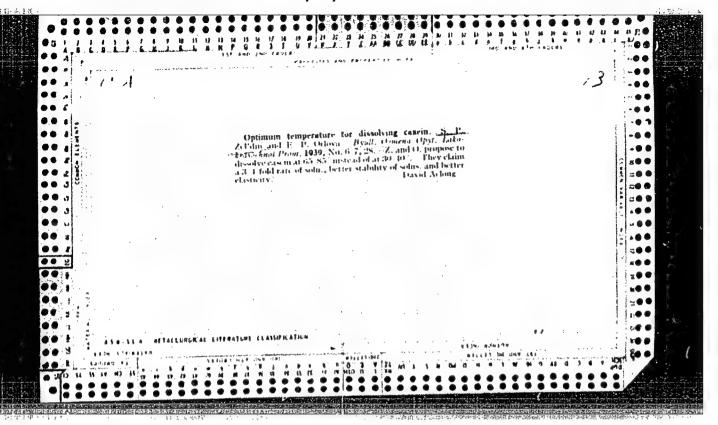


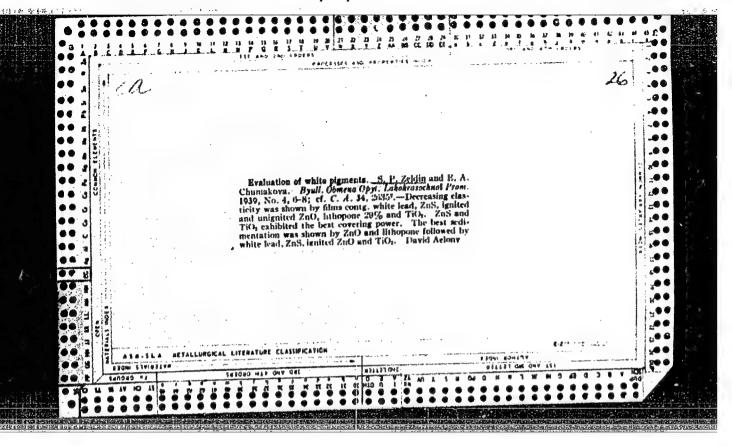


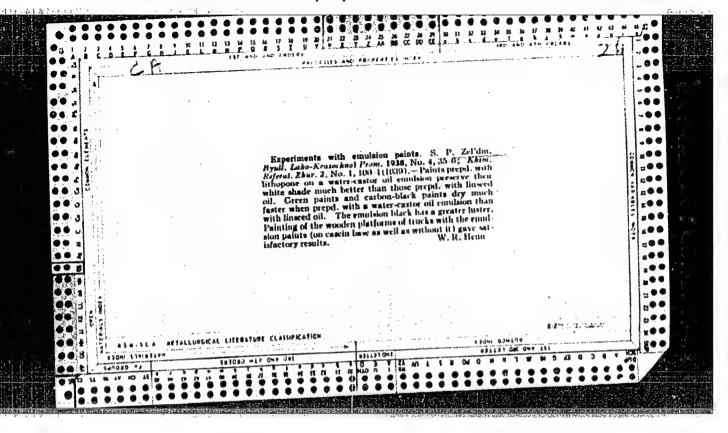


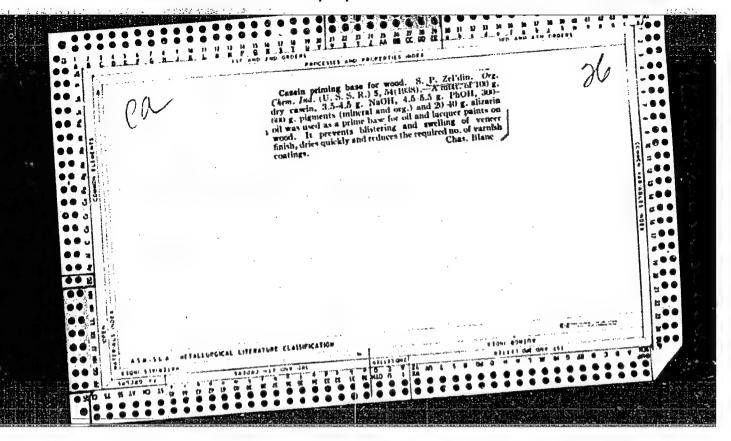


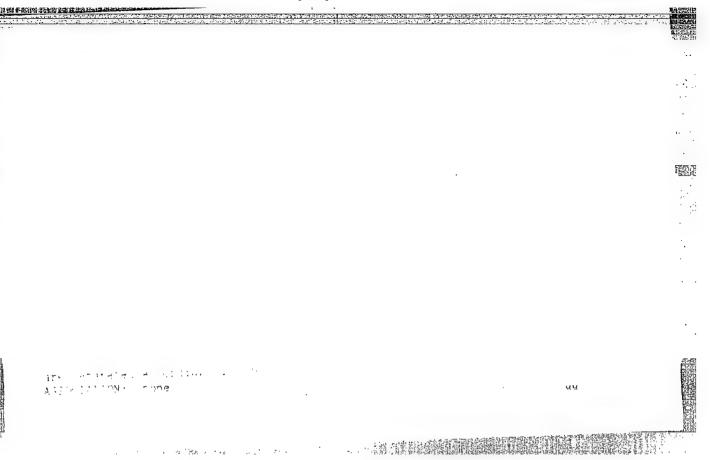












ZEL'DIN, V.S., inzh.; DEKHANOV, N.M., inzh.; BOYTSOV, L.I., inzh.; SARAHKIN, V.A., inzh.

Experience in the industrial application of nonfluxed manganese sinter for the smelting of 82% silicomanganese. Stal' 25 no.8: 718 Ag '65. (MIRA 18:8)

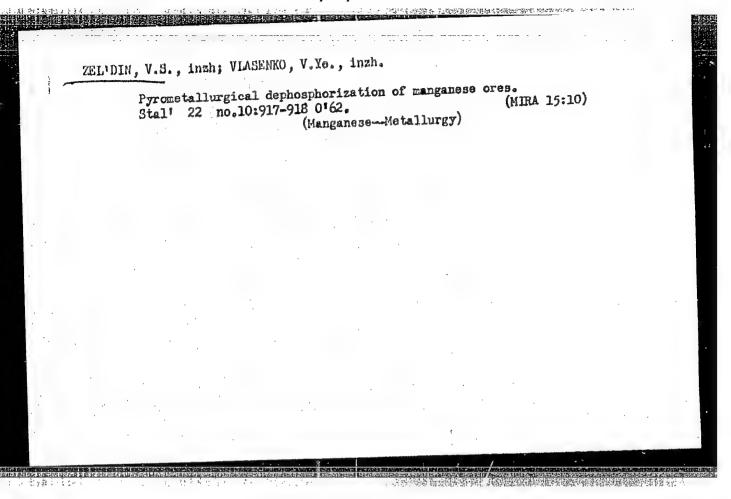
KHITRIK, S.I., doktor tekhn. nauk; DEKHANOV, N.M., inzh.;

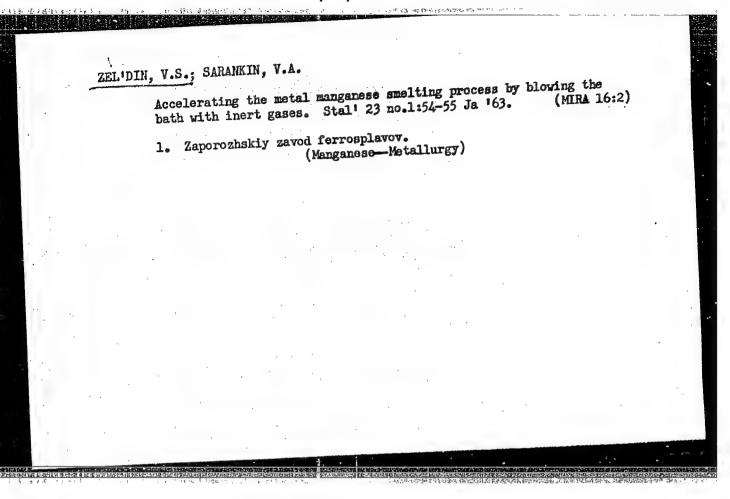
SARANKIN, V.A., inzh.; ZEI-DIN, V.S., inzh.;

HELIKOV, Yu.V., inzh.

Making manganese metal om a phosphorous-free slag from
first-grade Nikopol manganese ore. Met. i gornorud.
prom. no.5:66-68 S-0 163.

(MIRA 16:11)





"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964220009-8

S/133/63/000/001/006/011 A054/A126

AUTHORS:

Zel'din, V. S., Sarankin, V. A.

TITLE:

Intensification of metallic manganese smelting by blowing inert

gases into the bath

PERIODICAL: Stal!, no. 1, 1963, 54 - 55

TEXT: It is known that silicomanganese, upon penetrating through the slag layer is not completely cleaned from silicon and that at the bottom a metal layer forms which contains 3 - 5% Si. Based on the experience that during tapping the silicon content of the metal is reduced by 0.3 - 0.6%, tests were carried out to obtain manganese with a low silicon content by vigorous stirring of the bath. For this purpose the smelting metal was blown through by argon or nitrogen gas via a reducer under a pressure of 1.5 - 3.0 atm. through a 1/2% diameter pipe. Stirring was started after the last bath of silicomanganese was fed into the furnace. During stirring the furnace was not switched off. The tube was deslagged and set in the bath as deep as the slag-metal contact surface or a little deeper, into the metal. Depending on the silicon content the blowing was repeated 3 - 5 times.

Card 1/2

Intensification of metallic manganese smelting by... A054/A126

using an average of lm³ per 1 toh of metal. Based on a total of 168 test smeltings using an average of the bath considerably increased the output of Mp 1 the average. The stirring of the bath considerably increased the output of Mp 1 the average. The stirring of the bath considerably increased the output of Mp 1 the average. The stirring of the bath considerably increased the output of Mp 1 the average. The stirring of the bath considerably increased the output of Mp 1 the average. (Mr1) grade metal and in general improved the technical economical parameters. (Mr1) grade metal and in general improved the technical economical parameters.

The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the The new method involves smoke-formation which can, however, be eliminated by the new method involves smoke-formation wh

SOV/133-59-4-13/32

AUTHORS:

Zel'din, V.S. and Ilyushina, L.G., Engineers

TTTLE:

Improvement in the Production of Metallic Manganese (Usovershenstvovaniye proizvodstva metallicheskogo

margantsa)

PERIODICAL: Stal', 1959, Nr 4, pp 333-335 (USSR)

ABSTRACT:

A brief outline of the development of the production process of metallic manganese on the Zaporozh'ye Ferro-alloys Works which resulted in a decrease in the cost of production by a factor of 3 (from 1950 to 1958) is given. Main points: 1) the use of tilting furnaces for the production of the liquid conversion slag the production of the liquid conversion slag.

(composition, %: MmO - 64.0; FeO - 0.60; CaO - 3.75; SiO₂ - 27.0; MgO-1.1; Al₂O₃ - 3.0 and P₂O₅ - 0.023). A part of the flux (quartzite fines) is replaced by slag from the production of merchant silicomanganese culm 17, which contains 50% of SiO₂ and 20% of Mm. Changes in the power consumption and in output of the

furnaces during 1950-1958 are shown in Fig 1.

2) Smelting of conversion silicomanganese in one stage.

Previously 50% silicomanganese was smelted in two stages:

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SOV/133-59-4-13/32

Improvement in the Production of Metallic Manganese

conversion manganese - silicomanganese; both were made in separate furnaces. From 1953, by tapping silicon manganese into a refractory lined ladle and retention of the metal in the ladle, an increase in the manganese content to 58 - 63% was obtained as surplus carbon was evolved in the form of kish. In 1958 silicomanganese was produced directly without intermediate smelting of conversion manganese (no details). In the near future granulation of silicomanganese will be introduced. Directly produced silicomanganese has the following composition, %: Mn 66 - 69; Si 28 - 30; C 0.05 - 0.08; P 0.030 - 0.035. 3) Metallic manganese is produced from conversion liquid slag (48% Nm), lime (90% CaO) and crushed silicomanganese (30% Si) in tilting furnaces operating synchronously with tilting slag furnaces for charging conversion slag in liquid state. Liquid metallic manganese is vacuum treated at a residual pressure of 100 mm Hg. Changes in the power consumption for the production of manganese, increase in productivity and

Card 2/3.

SOV/133-59-4-13/32

Improvement in the Production of Metallic Manganese

decrease in the production costs are shown in Fig 2 and 3. There are 3 figures.

ASSOCIATION: Zaporozhskiy Zavod Ferrosplavov i Zaporozhskiy Sovnarkhoz (Zaporozh'ye Ferroalloys Works and Zaporozh'ye Sovnarkhoz)

Card 3/3

DEKHANOV, N.M., inzh., otv. red.; KRAVCHENKO, V.A., inzh., zames. otv. red.; RAGULINA, R.I., inzh., red.; YEM, A.P., kand. tekhn. nauk, red.; CASIK, M.I., assisten, red.; ZEL'DIN, V.S., inzh., red.; SAKHAROV, R.S., red.; BELIKOV, Yu.V., inzh., red.; KOCHERGA, N.T., ved. red.; SYCHUGOV, V.G., tekhn. red.

[Development of the iron alloy industry in the U.S.S.R.] Razvitie ferrosplavnoi promyshlennosti SSSR. Kiev, Gos. izd-vo tekhn. lit-ry, USSR, 1961. 243 p. (MIRA 15:4)

1. Ukraine. Gosudarstvennyy nauchno-tekhnicheskiy komitet. Institut tekhnicheskoy informatsii. 2. Zaporozhskiy zavod ferrosplavov (for Dekhanov, Kravchenko, Ragulina). 3. Dnepropetrovskiy metallurgicheskiy institut (for Gasik, Belikov). (Iron industry)

计记入证据 医亚甲基氏试验检 化连接路 网络金属 地名西班牙 化多均匀 电电力 化多分离子 计

ZEL'DIN, V.S., inzh.; ILYUSHINA, L.G.

Production of carbon-free ferrochromium in tilting furnaces. Stal! 21 no.8:711-712 Ag '61. (MIRA 14:9)

1. Zaporozhskiy zavod ferrosplavov i Zaporozhskiy sovnarkhoz. (Iron-chromium alloys-Metallurgy)

SARANKIN, V.A., inzh.; DEKHANOV, N.M., inzh.; BOYTSOV, L.I., inzh.; ZEL'DIN, V.S., inzh.; CHUPAKHIN, Yu.M., inzh.

Effect of conditions of slag formation on the quality technical and economic indices of the production of carbon-free ferrochromium. Stal 25 no.10:915-916 3 '65. (MIRA 18:11)

1. Zaporozhskiy zavod ferrosplavov.

CIA-RDP86-00513R001964220009-8

L 3277-66 EWT(1)/EPA(s)-2

ACCESSION NR: AR5014348

UR/0271/65/000/005/A032/A033 62-52:621.314.26

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika. Svodnyy tom, Abs. 5A222

AUTHOR: Sandler, A. S.; Kudryavtsev, A. V.; Sarbatov, R. S.; Nikol'skiy, A. A.; Zel'din, V. Sh.

TITLE: Static frequency changer with thyristors intended for speed regulation of high-speed induction motors 19,44,55

CITED SOURCE: Tr. Mosk. energ. in-ta, vyp. 56, 1964, 59-74

TOPIC TAGS: frequency changer, induction motor

TRANSLATION: A frequency changer designed with VKDU-20 thyristors consists of a power controlled rectifier, a 3-phase inverter, and a control system that comprises a frequency-setting unit, rectifier and inverter control units, a protection unit, and a supply source. The changer has an output power of 3-kya and a voltage controllable within 26-130 v at frequencies of 200-1000 cps,

Card 1/2

L 3277-66

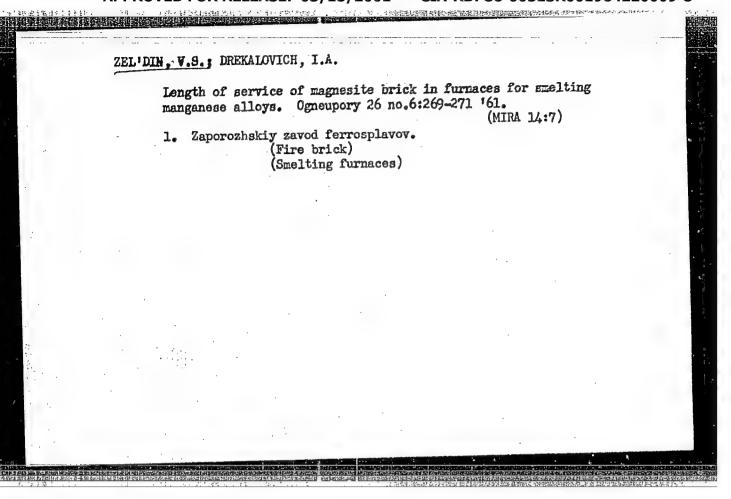
ACCESSION NR: AR5014348

respectively. Oscillograms are presented of motor voltages and currents under steady-state conditions and also the oscillograms which illustrate starting, braking, and speed regulation of the motor. Cited advantages of the changer are: the possibility of continuous independent control of frequency and voltage, small weight, and small size. Cited disadvantages are: impossibility of efficient generator-type braking and greater installed capacity of equipment at higher (close to 1000 cps) frequencies. Calculation of transformers and coincidence circuit is indicated. Figs. 12, tabs. 2.

SUB CODE: EE

encl: 00

Card 2/2



NIKOLAYEV, V.I.; ZEL'DIN, V.S.; KOVTANYUK, V.M.

New developments in research. Stal' 24 no.2:144 F '64. (MIRA 17:9)

DEKHANOV, N.M.; BOYTSOV, L.I., kand. tekhn. nauk; KRAVCHENKO, V.A., kand. tekhn. nauk; SNEZHKO, P.F.; ZEL'DIN, V.S.; KHARLAMOV, I.G. [deceased]; RUNOV, M.A.; SEREBRENNIKOV, A.A.; MATYUSHENKO, V.I.

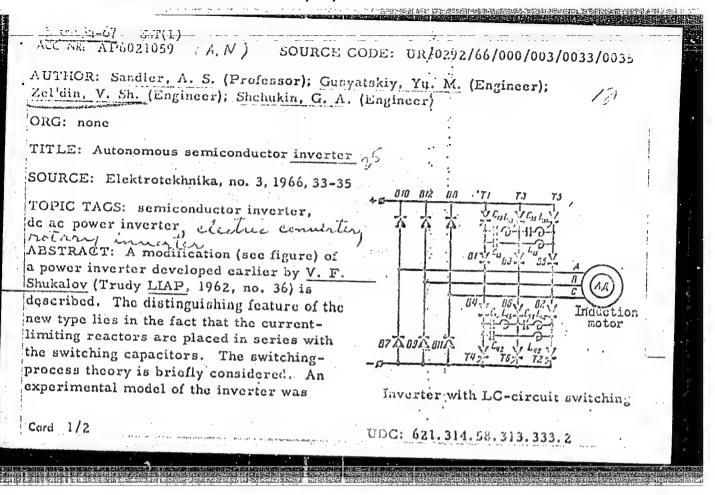
Production of high-quality ferrosilicon powder for heavy suspensions. Met. i gornorud. prom. no.4:14-16 J1-Ag 165. (MIRA 18:10)

SANDLER, A.S., kand.tekhn.nauk; SARBATOV, R.S., inzh.; KUDRYAVTSEV, A.V., inzh.; ZEL*DIN, V.Sh., inzh.; NIKOL*SKIM; A.A., inzh.

Static frequency converters for regulating the speed of asynchronous motors. Vest. elektroprom. 33 no.3:45-51 Mr .62. (MIRA 15:3) (Frequency regulation) (Electric motors, Induction)

"APPROVED FOR RELEASE: 03/15/2001

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"APPROVED FOR RELEASE: 03/15/2001 C

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L 09934-67 ACC NR: AP6021059

tested in supplying a 220/380-v, 28-kw induction motor at 5, 10, 30, and 50 cps; speed-torque characteristics are shown. These findings are reported: (1) The inverter with oscillatory switching circuits is a practical device which can be used for supplying induction motors up to 20-30-kw capacity! (2) Placing the current-limiting reactors in the switching circuits has resulted in (a) reduction of size and weight of the inverter and (b) lower rate of rise of current in thyristors. Orlg. art. has: 5 figures and 13 formulas.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 001

ZEL'DIN, Ye., inzh. (Leningrad)

A hybrid stage, Radio no.5:41 My '65. (MIRA 18:5)

9(2) AUTHOR:

Zel'din Ye A

SOV/115-59-9-14/37

TITLE:

Measuring the RPM Number Without Loading the Shaft

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 9, pp 28-29 (USSR)

ABSTRACT:

A device for measuring the rpm number by a photo-electric method without loading the shaft was developed at TsNII imeni Krylov. This device will measure up to 7,000 rpm with an error of ± 1 rpm and may be manufactured in any workshop. Black and white stripes are applied to the shaft whose rpm is to be measured. A lamp, 12 volts, 15 watts, and a FS-Al or FS-Dl photoresistor are mounted in tubes which are covered by short-focus lenses. When the shaft is turned, the photoresistor will produce pulses of a frequency equal to the rpm number which are counted by a SB-lm/100 electromechanical counter within a predetermined time interval. An ordinary alarm clock, equipped with special contacts will serve as timer and will actuate a blocking generator. The counter

Card 1/2

SOV/115-59-9-14/37

Measuring the RPM Number Without Loading the Shaft

capacity limits the maximum rpm which may be measured with this type of device.

Card 2/2

ZEL'DIN, Yevsey Aronovich; IVANOV, B.N., red.; VASIL'YEV, Yu.A., red.

[Impulse-type gas discharge lamps and their use]Gazorazriadnye impul'snye lampy i ikh primenenie; stenogramma lektsii. Leningrad, (MIRA 16:2)

(Electric lamps)

Electronic time relay. Radio no.2:21-22 F '61. (MIRA 14:9)

(Electric relays)

GORSHKOV, Aleksey Stepanovich; RUSETSKIY, Aleksandr Alekseyevich.

Prinimal uchastiye ZEL'DIN, Ye.A.; SHMYREV, A.N., kand.
tekhn. nauk, retsenzent; ROZHDESTVENSKIY, V.N., dots.,
retsenzent; IVANOV, A.N., kand. tekhn. nauk, nauchnyy red.;
KAZAROV, Yu.S., red.; SHISHKOVA, L.M., tekhn. red.

[Cavitation pipes]Kavitatsionnye truby. Leningrad, Sudpromgiz,
1962. 165 p. (MIRA 16:2)

(Cavitation)

S/194/62/000/007/029/160 D295/D308

AUTHOR:

Zel'din, Ye.

TITLE:

Time relay

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 7-2-17 a (Sov. foto, no. 1, 1962, 28)

TEXT: An electronic time relay is described for use in large-scale and color-photograph printing to ensure high accuracy and stability of timing. The time relay provides, in addition to automatic control, facilities for manual switching. The delays range from 0.2 to 10 sec. On one scale (the 'units' scale) delays from 0.2 to 11 sec. are set; on the other (the 'tens' scale), the remaining 50 sec., by 10 sec. steps. The device can be fed from 127 and 220 V mains, by 10 sec. steps. The device can be fed from 127 and 220 V mains, and has a power consumption of about 5 W. The time relay has four and has a power consumption of about 5 W. The time relay has four which eliminates spark wear of the contacts for amplifier valves of which eliminates spark wear of the contacts for amplifier valves of a power of 150 - 200 W. The time relay is manufactured by the Lenia gradskiy optiko-mekhanicheskiy zavod LUMP (LUMP Optical-Mechanical) Card 1/2

Time relay

S/194/62/000/007/029/160
D295/D308

Plant, Leningrad). [Abstracter's note: Complete translation.]

Card 2/2

ZEL'DIN, Ye.A.

New version of the oscillographic method for frequency measurement. Izm.tekh. no.5:52-53 My '63. (MIRA 16:10)

ZEL'DIN, Ye., inzh. (g.Leningrad)

Electronic stroboscope using a pulse tubc. Radio no.2:41-42 F
62. (Stroboscope)

(Stroboscope)

BIRBAIR, M.L.; ZEL'DIN, Ya.M.

Errors of the medical working ability expertise in diseases of the cardiovascular system. Zdrav.Bel. 8 no.11:63-65 N '62.

(MIRA 16:5)

1. Vitebskaya oblastnaya vrachebno-trudovaya ekspertnaya komissiya (predsedatel Ye.A. Khrapunovich) i kafedra fakul tetskoy terapii Vitebskogo gosudarstvennogo meditsinskogo instituta. (zav. - prof. A.M. Davydov).

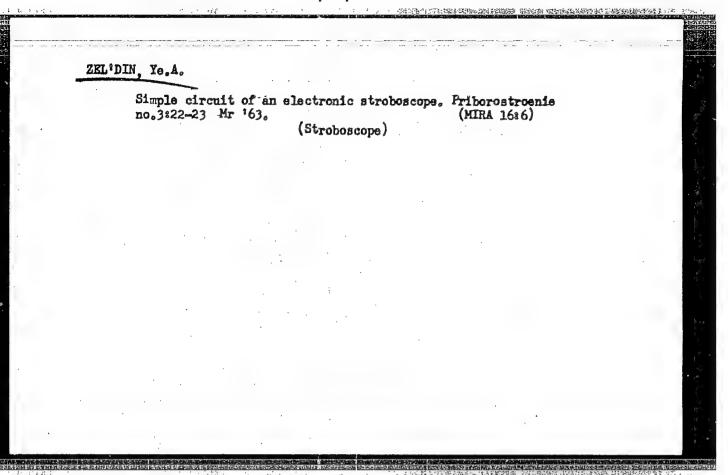
(CARDIOVASCULAR SYSTEM-DISEASES) (DISABILITY EVALUATION)

KREYTSER, A.G.; ZEL*DIN; Ye.A.

Combined wxyhemometer O-57. Med.prom. 14 no.11:50-54 N *60.
(MTRA 13:11)

1. Mediko-instrumental*nyy zavod **Krasnogvardeyets.**
(ELOOD--OXYGEN CONTENT)
(MEDICAL INSTRUMENTS AND APPARATUS)

Oxyhemograph, Radio no.7:56-57 Jl '57. (MER 10:8)
(Physiological apparatus)
(Electronic instruments)



ZEL DIN, 10.

107-57-7-49/56

AUTHOR: Zel'din, Ye.A. and Kreytser, A.G.

TITLE: Oxyhemometer (Oksigemometr)

PERIODICAL: Radio, 1957, Nr 7, pp 56-57 (USSR)

ABSTRACT: An oxyhemometer is an instrument for photoelectric measurement of oxygen saturation of human arterial blood. The instrument described below differs from older types in its better operational characteristics, simplified circuit, smaller size (210x180x225 mm), and smaller weight (3 kg). An indirect method of measurement is used: a section of the pinna of the ear is transilluminated by two small light beams, red and infrared, and light absorptions are compared by means of two miniature photocells. The absorption of red rays depends on the color (i.e., oxygen content) of the blood, on the thickness of the pinna, the fill of blood vessels, and other factors. The absorption of infrared rays depends on all the above factors except the color of blood. A bridge-type circuit involving a double-triode 6N15P tube compares the output voltages of both photocells in such a way that a voltage proportional to their difference is applied to an indicating instrument. The scale of the instrument is calibrated directly in % of oxygen blood saturation. A selenium photocell and a type FESS-U-1 sulfurous-silver cell are used for red and infrared rays respectively. Type 6Ts4P tube is used as power-supply rectifier. A ferroresonance voltage-stabilized transformer delivers practically constant output voltage with any a-c input voltage between 100 and 240 v. Power consumption 25 w. Card 1/2

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Oxyhemometer

107-57-7-49/56

One circuit diagram is shown, constructional features are given, and a specification of parts is provided.

AVAILABLE: Library of Congress

Card 2/2



建设有的计算技术的企业的工程和工程的对象的企业

Hew oxygenometer. Med. prom. 10 no.1:41-42 Ja-Mr '56 (MIRA 9:6)

1. Mediko-instrumental'nyy ordena Lenina zavod "Krasnogvardeyests".
(PHYSIOLOGICAL APPARATUS) (OXYGEN)

BOL'SHAKOV, V.M. ZEL'DIN, Ye.S. [deceased]; MINTS, R.P.; FUFAYEV, N.A.

Dynamics of ar costillator = rotor system. Izv. vys. ucheb.
cav.; radiofic. 8 no.2:3559-371 '65. (MIRA 16:6)

1. Neuthno-issledovatol'skty fiziko-takhnicheskiy institut pri
Gor'kovskom universitate.

KON 'KOV, Aleksey Ivanovich; ZEL'DIN, Yuliy Rafailovich; KURGIN, Yuriy Mikhaylovich; KOZLOVSKIY, Sergey Dmitriyevich; KON'KOVA, Mayya Borisovna; BUDANOV, Konstantin Dmitriyevich; BELEN'KIY, L.I., retsenzent; ABRAMOV, S.A., retsenzent; ZELENSKAYA, G.G., retsenzent; SIBIRTSEV, S.L., retsenzent; VERBITSKAYA, Ye.M., red.

[Equipment for the finishing operations in the textile industry] Oborudovanie otdelochnogo proizvodstva tekstil-noi promyshlennosti. Moskva, Legkaia industriia, 1964.
417 p. (MIRA 18:1)

ZEL'DIN, Yu.R.

Speed ranges of spindle performance. Tekst.prom. 16 no.7:65-66

J1 '56.

(Spinning machinery)

AKIM, L.Ye.; GEYSBERG, S.M.; TAIMUD, S.L.; Prinimali uclasti e: YEL'NITSKAYA,
Z.P., mladshiy nauchnyy sotrudnik; ZEL'DINA, A.Ye., mladshiy nauchnyy
sotrudnik; MEL'GHAKOVA, N.A., mladshiy nauchnyy sotrudnik; BLINO7,
Ye.P., starshiy laborant; BOGDANOVSKAYA, M.K., starshiy laborant
Obtaining viscose cellulose for the production of staple rayon
with complete elimination of the stage of hot alkaline refining
of the woodpulp. Trudy LTITSBP no.13:8-15 '64.

(MIRA 18:2)

KURTSIN, I. T.; ZELDINA, A. M.; GOLFMAN, A. E.; et al

Nervino-Gumoralnye Peguliatsii Deiatelnosti Pishevaritelnogo Apperata (NeuroHumoral Regulative Activity of Digestive Apparatus), 304 p., Moscow, 1949.

TALMUD, S. L.; ZEL'DINA, A.Ye.; GUREVICH, R. I.

Preparation of sulfite viscose. Zhur. prikl. khim. 33 no.9:2112-2118 S '60.

(MIRA 13:10)

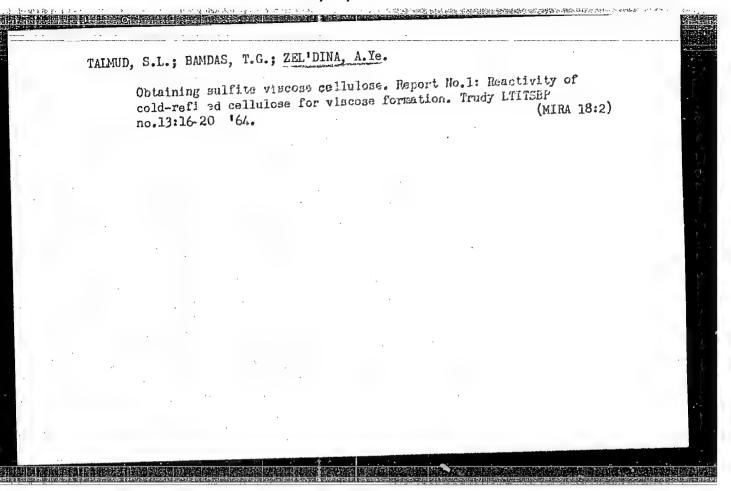
1. Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy promyshlennosti.

(Viscose)

TAIMUD, S.L.; ZEL'DINA, A.Ye.

Production of sulfide rayon pulp. Trudy LTITSBP no.12:95-115 64.

Determining the amount of resin dissolved in the cooking liquors of sulfite pulp production. Ibid.:126-129 (MIRA 18:8)



ZEL'DINA, M.Yu.; ZEMANEK, Ye.N.; SERGEYEVA, A.N.; TURCHANINOVA, E.V.

Selar activity in 1951. Publ. Kiev.astron.obsor.no.6:113-119 154.
(Sun)

(KIRA 9:4)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964220009-8

ZEL DINA, M. Yu.

ZHL'DINA, M.Yu.; ZHMANKK, To.N.; SERGEYEVA, A.N.

Observations of the solar photosphere and chromosphere at the Kiev

Observations of the solar photosphere and chromosphere at the Kiev

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Observations of the solar photosphere at the Kiev

Observations of the sol

ZEL'DINA M. YU.

15-57-5-6836

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,

p 159 (USSR)

AUTHORS:

Balabushevich, I. A., Zel'dina, M. Yu.

TITLE:

The Solution of Direct and Inverse Problems of Gravimetry Along the Vertical Gradient for Disturbing Bodies of Simple Form (Resheniye pryamoy i obratnoy zadachi gravimetrii po vertikal'nomu gradiyentu dlya

vozmushchayushchikh tel prosteyshey formy)

PERIODICAL:

Publikatsiya Kiyevsk. astron. observ., 1956, Nr 7,

pp 65-92.

ABSTRACT:

The authors attempt to bring together in a single system the solutions of direct and inverse problems of gravime try along the vertical gradient W_{ZZ} . The solution for the direct problem is examined, and also methods for solving the inverse problem for several bodies of the simplest form. The considered instances of solving direct and inverse problems of gravimetry ℓ

Card 1/2

The Solution of Direct and Inverse Problems (Cont.) along $W_{\rm ZZ}$ might also be used to a considerable degree in interpreting the magnetic field $Z_{\rm B}$. A. L.

SERGEYEVA, A.N.; ZEL'DINA, M.Yu.

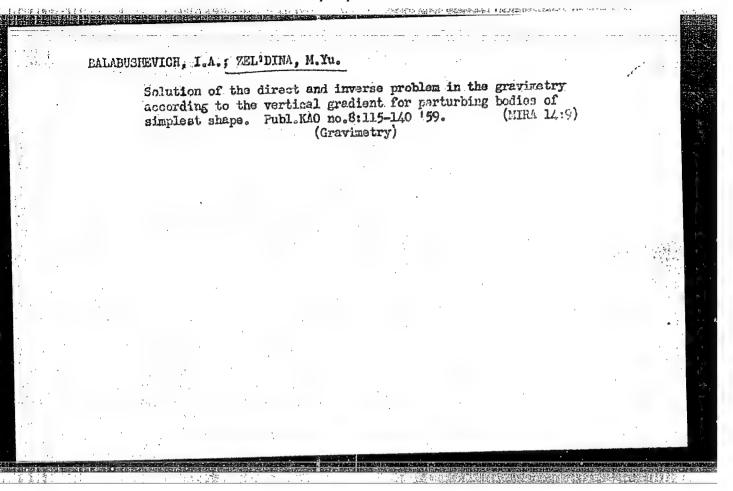
Chromospheric activity of the sun from 1948 to 1949. Publ.

Kiev. astron. obser. no.7:95-104 '56. (MLRA 9:12)

(Sun--Prominences)

ZEL'DINA, M.Yu; ZIMAHEK, Ye.N.; SERGEYEVA, A.H. Observations of the sun's photosphere and chrososphere at the Astronomical Observatory of Kiev University in 1946-1950. Trudy
KAO 2:3-468 '58.

(Sun)



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THORS:	Yakovkin, N. A., Zei	dina, M. Yu.		•	
TLE:	Determination of se	f-absorption in spect	ral lines of pro	minences	
ERIODICAL:		, Astronomiya i Geode nechnyye dannyye", 19	ziva. no. 4. 196	2, 53,	
			mtion in spectra	1 lines of	1.7
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EXT: prominences s estimate his method	Various methods of are compared. The C	etermining self-absor	ption in spectra	1 lines of 152, no. 3)	1
s estimate his method es.	Various methods of are compared. The Compared. The Compared The Compared The description of	etermining self-absornway method ("Contrib ate one. The authors the nomogram is prese	ption in spectra b. Dun. Obs.", 19 developed a nomented. There are	1 lines of 152, no. 3)	1
s estimate his method es.	Various methods of are compared. The C	etermining self-absornway method ("Contrib ate one. The authors the nomogram is prese	ption in spectra b. Dun. Obs.", 19 developed a nomented. There are	1 lines of 152, no. 3)	1

ZEL'DINA, M.Yu.; ZEMANEK, Ye.N.

Spectrophotometry of a sunsport. Mezhdunar.geofiz.god no.3:55-64 (MIRA 14:10)
161.

1. Astronomical Observatory of Kiyev University. (Sunspots) (Spectrum, Solar)

YAKOVKIN, N.A.: ZEL'DIMA, M.Yu.

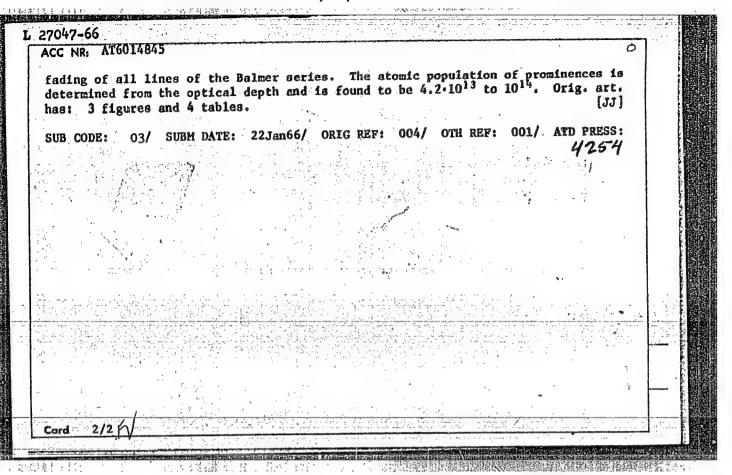
The HA emission field in the prominences. Astron. zhur. 41
nc.5:914-919 S-0'64.

1. Astronomichaskaya observatoriya Kiyevskego gosudarstvennogo
(MIRA 17:10)
universiteta.

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AUTHOR: Yakovkin, N. A.; Zel'dina, M. Yu. TITLE: Dependence of the Høline form upon protuberance orientation SOURCE: Ref. zh. Astronomiya, Abs. 4.51.488	
REF SOURCE: Solnechnyye dannyye, no. 5, 1965, 50-54 TOPIC TAGS: TOPIC TAGS: TOPIC TAGS: TOPIC TAGS: TAGS: TAGS: TOPIC TAGS: TAGS: TAGS: TAGS: TAGS: TAGGET TAGGET TA	CARL COLOR CARLO COLOR COLOR COLOR CARLO C
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AUTHOR: Zel'dina, M. Yu.; Serge	ayeva, A. N.
ORG: none	
TITLE: Results of spectrophotom	
Naukova dumka, 1966, 36-47	rofiziki (Problems in astrophysics). Kiev, Izd-vc
TOPIC TAGS: astrophysics, solar	r astronomy, solar chromosphere, solar prominence
many helium and metal lines. The position angle calculated from the photometric section from the pheric transparence at the moment of processing observations of all intensities related to the continuous contin	cessed spectrograms of four bright prominences whose in the Balmer series from H to H ₁₂ —H ₂₀ inclusive, and he date of observation, legal time of observation, the northern pole of the Sun, brightness, distance of e edge of the disk, and the characteristic of atmostration of observation are indicated in a table. Results liemission lines include for each prominence: central inuous spectrum of disk center, full half-widths, uivalent widths of the continuous spectrum of disk ed atoms in the line of sight. Self-absorption causes
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ACCESSION NR: AP4032727

s/0033/64/041/002/0336/0343

AUTHOR: Yakovkin, N. A.; Zel'dina, M. Yu

TITLE: Excitation and ionization of hydrogen in prominences

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 2, 1964, 336-343

TOPIC TAGS: astronomy, sun, solar activity, hydrogen ionization, solar prominence, solar photosphere, solar radiation, ionization recombination mechanism, solar flare

ABSTRACT: It is shown that the ionization of hydrogen atoms occurs as a result of ADPROMED FOR REITASE 1003 F159 12001 (T 574-R) 25-10-15-13-100 1964220009-8 electrons is the second quantum level (n2 = 3.104, ne = 4.1045). The second quantum level (n2 = 3.104, ne = 4.1045).

$$n_e = 3 \cdot 10^8 \sqrt{n_2} .$$

If the temperature of Ly- \propto radiation in a prominence is \sim 7500C, the population of the first level will be about 10^{11} and the degree of ionization of hydrogen is \sim 30%. The luminescence of prominences in the first lines of the Balmer series is caused by the resonance scattering of photospheric radiation. The

Card 1/2

ACCESSION NR: AP4032727

temperature of excitation of the corresponding levels is dependent on the dilution factor and the central intensities of Fraunhofer lines. The populations of the higher levels of the hydrogen atom are determined by the ionization-recombination mechanism. It is found that numerically they are equal to the populations at resonance scattering of solar radiation. It therefore follows that the surface brightness of a prominence always is lower than the surface brightness of the solar disc in this same line. If the formation has a greater brightness it should be considered a flare instead. Orig. art. has: 13 formulas, 9 figures and 3 tables.

ASSOCIATION: Astronomicheskaya observatoriya Kiyevskogo gosudarstvennogo universiteta (Astronomical Observatory of Kiev State University)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964229

YAKOVKIN, N.A.; ZEL'DINA, M.Yu.

Spectrophotometric investigation of four bright prominences.
Astron. zhur. 40 no.5:847-854 S-0 '63. (MIRA 16:11)

1. Kiyevakaya astronomicheskaya observatoriya.

"APPROVED FOR RELEASE: 03/15/2001

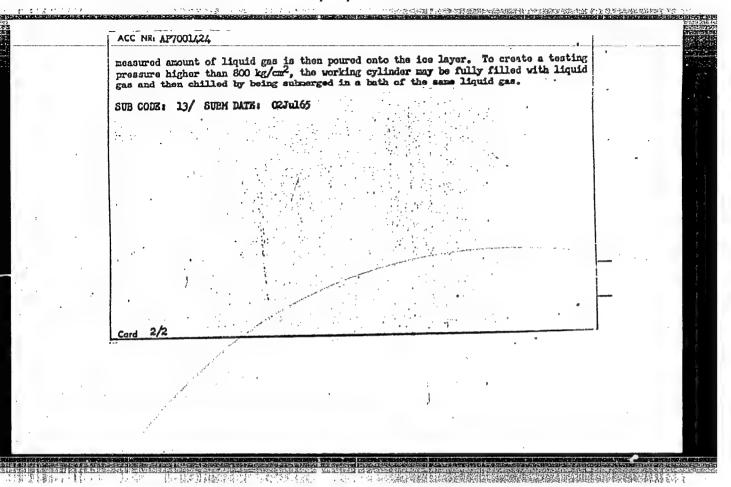
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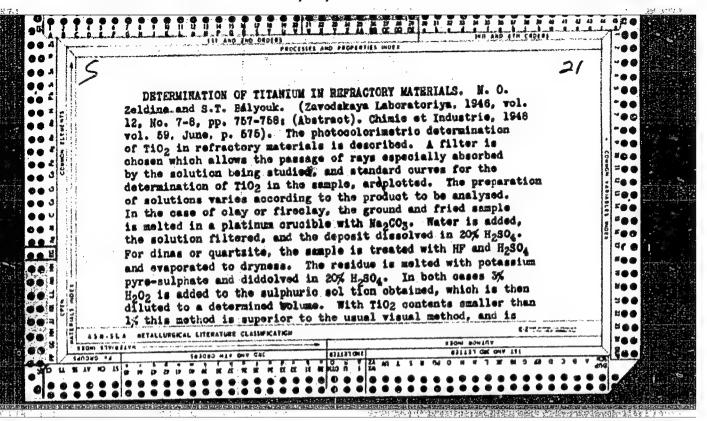
ACC NR. AP7001424 (A) SOUNCE CODE: UR/0413/66/000/021/0141/0141

INVENTORS: Saksaganskiy, T. A.; Shandorov, G. S.; Tokar', I. F.; Stipura, A. P.;
Shipitsyn, V. M.; Zol'dina, T. S.; Yurchenko, N. P.

ORG: none

TITLE: A nothed of testing hellow products for hermetic seal and for strength.
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SHCHERBAK, N.; ZEL'DIS, G.

Students take part in technical creative activity. Avt.transp.
41 no.4:49-50 Ap '63. (MIRÂ 16:5)
(Transportation, Automotive—Technological innovations)

KALISSKIY, V.S., inzh.; ZEL'DIS, G.L., inzh., retsenzent

[Methods mam al for raising the qualifications of motor-vehicle drivers to the second class] Metodicheskoe posobie dlia povysheniia kvalifikatsii shoferov na vtoroi klass. Kiev, Tekhnika, 1965. 555 p. (MIRA 19:1)

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ZEL'DIS, I.7., inzh.

Safety measures in soldering. Politekh.obuch. no.h:h7-42 45 45 (NRA 13:7)

(Solder and soldering-ellygianic aspects)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001964220009-8"

MARKELLOV, P. P., and I. ZELIDIS.

Materialovedenie i tekhnologiia aviatsion-nykh materialov. Moskva, Voenizdat, 1947. 292 p.

Title tr.: Technology of aircraft materials. Reviewed by IU. M. Lakhtin and V. G. Kaliuzhnyi in Sovetskaia kniga, 1948, no.8,p.46.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

ZEL'DIS, I. V., and K. D. IL'INSKII.

Aviatsionno-remontnoe delo. Ucheb. posobie dlia shkol aviamekhanikov. Moskva, Voenizdat, 1949. 511 p., illus.
Title tr.: Aircraft repair. A textbook for aircraft mechanics.

T1671.9.ZL

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

MARKELLOV, P. P. and I. V. ZEL'DIS.

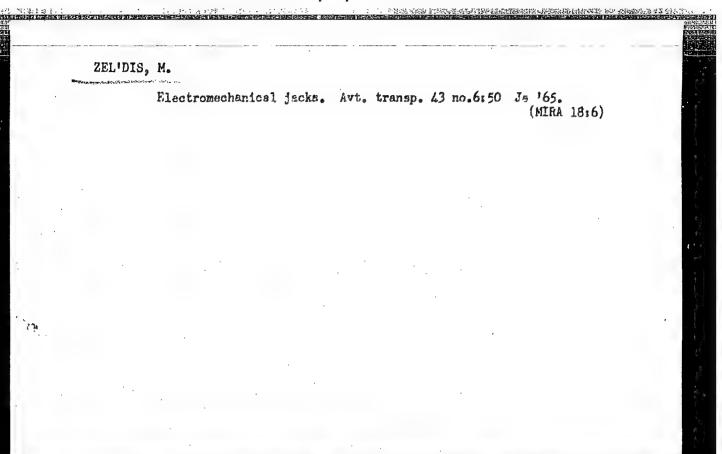
Aviatsionnoe materialovedenie (mentally i splavy, drevesnye materialy, aviatopliva, masla i okhlazhdaiushchie zhidkosti). Moskva, Voenizdat, 1943. 151 p., illus., diagrs.

Title tr.: Course in a ircraft materials (metals and alloys, wood materials, fuel, oil, and cooling liquids).

TL598.M3

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

ZELIDIS, I. V.	
Airplane maintenance; manual. Moskva, Voen. izd-vo, 1949. 511 p. (50-19017)	
TL671.9.Z4	
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MEZHEUMOV, F., inzh.; ZEL'DIS, M., inzh.; ONISHCHENKO, V., inzh.

Automation of the washing and drying of passenger cars. Art.transp. 39 no.1:16-20 Ja '61.

(Automobiles—Maintenance and repair)

Casoline pump and carburetor testing unit. Avt. transp. 33 no.3:
34-35 Wr '55. (MLRA 8:5)
(Carburetors - Testing) (Fuel pumps--Testing)

ZEL'DIS, M.; TELESHEV, A.

Electric lifting jacks for inspection pits. Avt. transp. 36 no.10: 46-47 0 '58. (MIRA 13:1)

ZEL'DIS, N.S.

Conservative treatment of hallux valgus with plastic pads. Ortop. travm. i protez. 20 no.2:21-23 F '59. (MIRA 12:12)

1. Iz kliniki ortopedii i travmatologii (ispolnyayushchiy obyazannosti zaveduyushchego - kand.med.nauk A.I. Rozentsvit) Odesskogo meditsinskogo instituta im. N.I. Pirogova (dir. - prof. I.Ya. Deyneka).

(HALIUX. ther.

valgus, conservative ther. using plastmass pads (Rus))

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USSR/Forestry - Forest Cultivation.

K-5

Abs Jour

Ref Zhur - Biol., No 9, 1958, 39117

Author

Ol'shanskiy, M.A., Zeldman, D.P., Zheleznov, G.F.

Inst

Progress in Theory and Practice of Field Protection of Title

Forest Cultivation. (Results Produced by Cluster Planting

of Oak in Experiment Institutions after a Period of 8

Years).

Orig Pub

Acrobiologiya, 1957, No 4, 79-108.

Abstract

The state of oak cluster planting on 458 forest strips (laid in 1949 and 1950), according to data obtained from 64 experiment agricultural institutions, is described. The forest strips are located in 30 oblasts of the RSFSR,

Ukraine and Moldavia.

It is indicated that no deterioration in the quality of

plantations, based on the growth of the intra species

rivalry was noticed.

Card 1/2

MALKOV, M.P.; ELDOVIC, A.G. [201'dovich, A.G.]; FRADKOV, A.B.; DANILOV, I.B.; 20CH, O. [translator]

Industrial separation of deuterium by low-temperature distillation.

Jaderna energie 4 no.11:344-351 N 198.

B125/B104

AUTHOR:

Zel'dovich, A. B

The creation of stars in an expanding universe

TITLE:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

PERIODICAL:

no. 5(11), 1962, 1982-1984

TEXT: The present study shows that an expanding cold matter (hydrogen) will disintegrate into pieces or drops after having reached the normal These drops are distributed throughout space, and space between them is filled with gas of low density.

The deviations of the density from its mean increase as compared with the estimate 1/W for independent nucleons as a result of the Van der Waals molecular attraction. The increase in the perturbances computed by Ye. M. Lifshits (ZhETF, 16, 587, 1946) is due to gravitation and is sufficient for the stars to separate if the phase transitions are taken into account. At normal pressure (0.07 g/cm3) the density of solid hydrogen is reached at t=3200 sec if $g=0.8\cdot 10^6$ t^{-2} holds for the time dependence Card 1/3